

**Jump, Christine**

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**From:** Michael Stephenson <mstephenson@cameron-cole.com>  
**Sent:** Thursday, June 19, 2014 2:30 PM  
**To:** Jump, Christine; SMITH, MARTIN L  
**Cc:** Akhter Hossain  
**Subject:** RE: Test America QAP  
**Attachments:** Western Boomerang Bld J.xlsx; Bldg J Locations Western End.pdf; fa15775-Bullseye Partial Results.pdf; FACT SHEET CH Wichita.docx; CHK Mailing List.pdf

Hi Chris,

I appreciate you sending that along for review.

On the schedule, I was under the impression that the summary level information that we submitted in the quarterly status report and additional detail provided in emails prior to that time was sufficient to keep you up to date on our schedule. That said, I can see where some additional granularity on the schedule would be prudent and am attempting to get that information into a revised schedule to be submitted along with the complete IRM work plan response to comments. I apologize for the confusion/oversight and will get you some updated schedule information in the coming days.

We have begun excavating within Building J and have received some analytical results back from the lab. Excavation work began in the western hot spot within Building J and has continued into the western portion of the "boomerang". Analytical results for both of these areas, and field sketches of the sample locations are also provided.

For the "bulls-eye" area:

As you can see in the data (preliminary lab report attached, "fa15775 bullseye partial results.pdf"), all confirmation samples (1 floor and 4 sidewalls) identified the presence of PCE at levels exceeding our IAO of 121 ug/kg. As such, we plan to continue excavation of this area in all directions. However, some portions of the excavation, if extended too far, could create problems with the existing building walls. We have decided to mobilize a geoprobe rig and mobile lab to the Site on Monday of next week to collect additional characterization data for the bullseye area and determine if building walls could be jeopardized and bring greater clarity to the probable excavation limits within the building.

For the Western portion of the "boomerang":

The data for this area is tabulated in the file "western boomerang Bldg J.xls". PCE concentrations in the excavation floor and the western sidewall exceeded the IAO. As such, additional excavation will be performed in these areas. This work will be delayed until after the geoprobe investigation to insure we have a more complete picture of the Building J contaminant distribution prior to proceeding.

The information garnered from the geoprobe investigation on Monday could potentially change our schedule and we will let you know what we find.

DRAFT FACT SHEET/Mailing List

I have attached a DRAFT Fact Sheet and Mailing list. I was hoping get go through this with you concurrent to finalizing my comment responses to avoid a back and forth on the fact sheet when the comment response letter is finished. It appears that these typically go out under regulatory agency letterhead and I thought you might want to do the distribution as such this time around. Either is fine with us. The mailing list was provided is the same that was used for the Final Permit Determination mailing in September 2012.



Please do give me a call if you get a chance to during your conference this week. We are eager to press ahead and appreciate your support in helping us do so.

Thanks,

Mike Stephenson  
Principal Scientist  
Cameron-Cole, LLC  
50 Hegenberger Loop  
Oakland CA 94621  
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mobile - 510.773.9895  
mstephenson@cameron-cole.com

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**From:** Jump, Christine [mailto:Jump.Chris@epa.gov]  
**Sent:** Thursday, June 19, 2014 4:36 AM  
**To:** Michael Stephenson; SMITH, MARTIN L  
**Cc:** Akhter Hossain  
**Subject:** RE: Test America QAP

Thanks Mike. I will send it on to my QA group, but I don't think I ever received a schedule for the work you are currently doing.

When did you start excavating building J, how long do you anticipate it taking, when will you initiate work outside Building I, etc.

I realize things may change, but for oversight purposes, you are required to provide this information. You can provide updates by email as schedules are adjusted. We have conditionally approved this work without all the usual detail in an attempt to let you move forward quickly, but because of this, we need to be kept informed about onsite activities.

Please let me know if you have any questions.

Chris Jump, L.G.  
Waste Remediation and Permitting Branch  
US EPA, Region 7  
[jump.chris@epa.gov](mailto:jump.chris@epa.gov)  
(913) 551-7141

Mailing address: 11201 Renner Boulevard, Lenexa, KS 66219

**From:** Michael Stephenson [mailto:mstephenson@cameron-cole.com]  
**Sent:** Wednesday, June 18, 2014 12:46 PM  
**To:** Jump, Christine  
**Cc:** Akhter Hossain  
**Subject:** FW: Test America QAP

Hello Chris,

Attached is the QAPP for Test America Seattle to whom we have submitted samples for dalapon analysis by 8151 MS. I am working on the comprehensive response to comments but wanted to get this in your hands straight away as samples are currently en route to the lab.

Thanks,  
Mike

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**From:** Brady Gerber [<mailto:BGerber@isienvironmental.com>]  
**Sent:** Friday, June 06, 2014 2:13 PM  
**To:** Michael Stephenson  
**Subject:** Test America QAP

Good afternoon Mike,

Attached is the Test America Quality Assurance Manual and the reporting/MDL limits for dalapon soil samples.

Let me know if you have any questions.

Thanks

**Brady Gerber**

iSi Environmental (iSi)

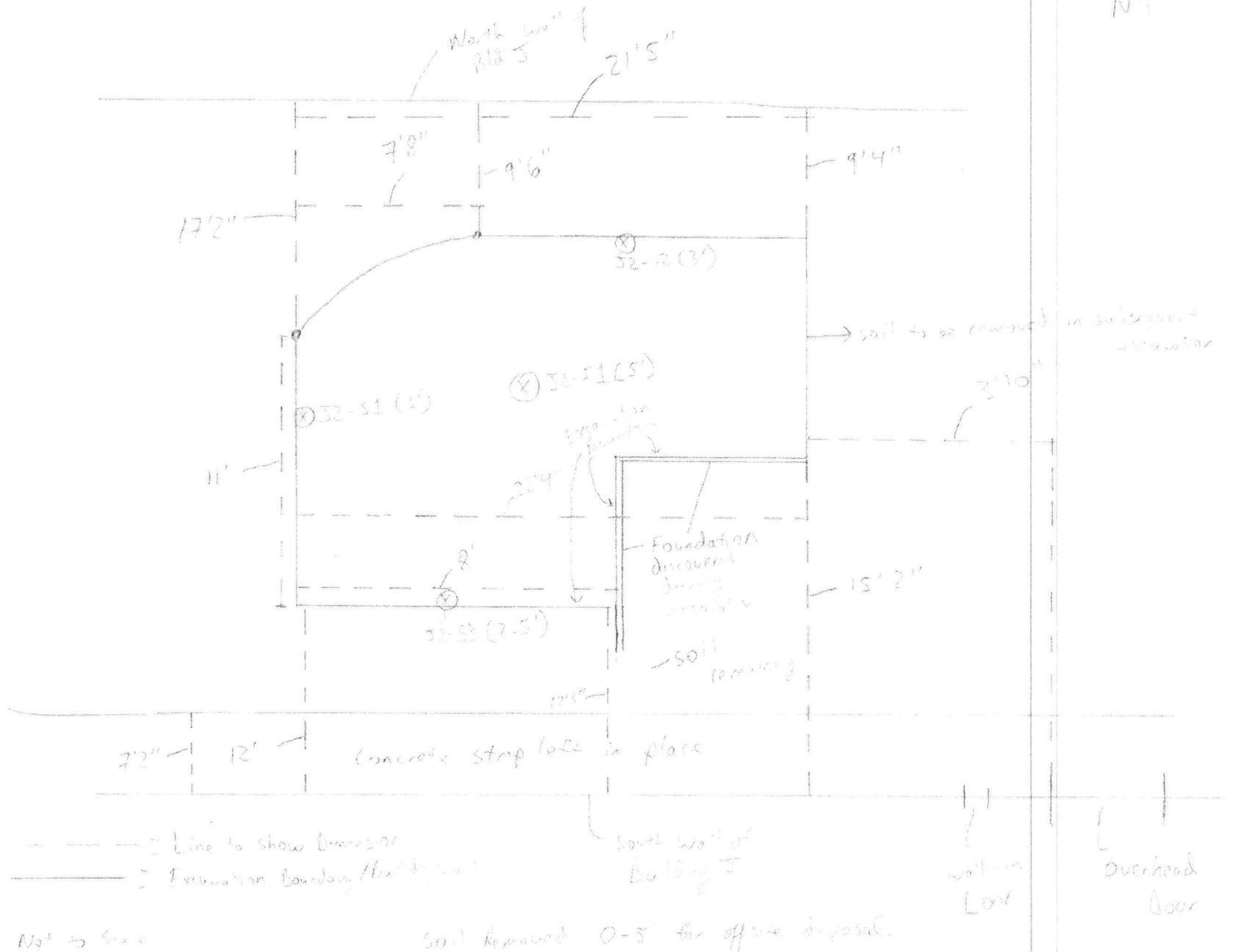
Phone: (316) 264-7050 Cell: (316) 772-7286

<http://www.iSienvironmental.com>

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Bld 5 - Western 1/3 of Boomerang (6-13-14)

N ↑



# Accutest Laboratories Southeast, Inc.

Jun 17, 2014 21:53 pm

Job Number:	FA15814
Account:	ISI Environmental Services
Project:	Clean Harbors; Wichita, KS
Project Number:	

Legend: Detection Exceed

Client Sample ID:		KS Tier 2 Risk Based Standards Residential Soil-to-GW/IAO's (KDHE 10/2010)	J2-F1 [5']	J2-S1 [3']	J2-S2 [3']	J2-S3 [2.5']	TRIP BLANK
Lab Sample ID:			FA15814-2	FA15814-1	FA15814-3	FA15814-4	FA15814-5
Date Sampled:			6/13/2014	6/13/2014	6/13/2014	6/13/2014	6/13/2014
Matrix:			Soil	Soil	Soil	Soil	Trip Blank Soil

## GC/MS Volatiles (SW846 8260B)

Compound	Unit	Standard	J2-F1 [5']	J2-S1 [3']	J2-S2 [3']	J2-S3 [2.5']	TRIP BLANK
Acetone	ug/kg	51600	ND (42)	ND (40)	ND (39)	ND (41)	ND (50)
Acrolein	ug/kg	0.175	ND (21)	ND (20)	ND (19)	ND (21)	ND (25)
Acrylonitrile	ug/kg	2.8	ND (21)	ND (20)	ND (19)	ND (21)	ND (25)
Benzene	ug/kg	168	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Bromobenzene	ug/kg	-	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Bromochloromethane	ug/kg	-	ND (4.2) <sup>a</sup>	ND (4.0) <sup>a</sup>	ND (3.9) <sup>a</sup>	ND (4.1) <sup>a</sup>	ND (5.0) <sup>a</sup>
Bromodichloromethane	ug/kg	841	ND (4.2) <sup>a</sup>	ND (4.0) <sup>a</sup>	ND (3.9) <sup>a</sup>	ND (4.1) <sup>a</sup>	ND (5.0) <sup>a</sup>
Bromoform	ug/kg	832	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
n-Butylbenzene	ug/kg	50900	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
sec-Butylbenzene	ug/kg	82700	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
tert-Butylbenzene	ug/kg	-	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Chlorobenzene	ug/kg	5100	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Chloroethane	ug/kg	128000	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Chloroform	ug/kg	850	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
o-Chlorotoluene	ug/kg	7180	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
p-Chlorotoluene	ug/kg	-	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
2-Chloroethyl vinyl ether	ug/kg	-	ND (21)	ND (20)	ND (19)	ND (21)	ND (25)
Carbon disulfide	ug/kg	6710	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Carbon tetrachloride	ug/kg	73.4	ND (4.2) <sup>a</sup>	ND (4.0) <sup>a</sup>	ND (3.9) <sup>a</sup>	ND (4.1) <sup>a</sup>	ND (5.0) <sup>a</sup>
1,1-Dichloroethane	ug/kg	269	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
1,1-Dichloroethylene	ug/kg	85.9	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
1,1-Dichloropropene	ug/kg	-	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
1,2-Dibromo-3-chloropropane	ug/kg	5.43	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
1,2-Dibromoethane	ug/kg	0.598	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)

1,2-Dichloroethane	ug/kg	60	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
1,2-Dichloropropane	ug/kg	81.7	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
1,3-Dichloropropane	ug/kg	-	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
2,2-Dichloropropane	ug/kg	-	ND (4.2) <sup>a</sup>	ND (4.0) <sup>a</sup>	ND (3.9) <sup>a</sup>	ND (4.1) <sup>a</sup>	ND (5.0) <sup>a</sup>
Dibromochloromethane	ug/kg	834	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Dichlorodifluoromethane	ug/kg	13500	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
cis-1,2-Dichloroethylene	ug/kg	855	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
cis-1,3-Dichloropropene	ug/kg	-	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
m-Dichlorobenzene	ug/kg	-	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
o-Dichlorobenzene	ug/kg	48400	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
p-Dichlorobenzene	ug/kg	5940	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
trans-1,2-Dichloroethylene	ug/kg	1220	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
trans-1,3-Dichloropropene	ug/kg	-	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Ethylbenzene	ug/kg	65600	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
2-Hexanone	ug/kg	-	ND (21)	ND (20)	ND (19)	ND (21)	ND (25)
Hexachlorobutadiene	ug/kg	1100	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Isopropylbenzene	ug/kg	65100	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
p-Isopropyltoluene	ug/kg	-	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
4-Methyl-2-pentanone	ug/kg	6690	ND (21)	ND (20)	ND (19)	ND (21)	ND (25)
Methyl bromide	ug/kg	50	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Methyl chloride	ug/kg	924	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Methylene bromide	ug/kg	-	ND (4.2) <sup>a</sup>	ND (4.0) <sup>a</sup>	ND (3.9) <sup>a</sup>	ND (4.1) <sup>a</sup>	ND (5.0) <sup>a</sup>
Methylene chloride	ug/kg	42.9	ND (8.3)	ND (7.9)	ND (7.8)	ND (8.3)	ND (10)
Methyl ethyl ketone	ug/kg	24200	ND (21)	ND (20)	ND (19)	ND (21)	ND (25)
Methyl Tert Butyl Ether	ug/kg	848	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Naphthalene	ug/kg	349	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
n-Propylbenzene	ug/kg	110000	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Styrene	ug/kg	9340	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
1,1,1,2-Tetrachloroethane	ug/kg	114	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
1,1,1-Trichloroethane	ug/kg	2800	ND (4.2) <sup>a</sup>	ND (4.0) <sup>a</sup>	ND (3.9) <sup>a</sup>	ND (4.1) <sup>a</sup>	ND (5.0) <sup>a</sup>
1,1,2,2-Tetrachloroethane	ug/kg	16	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
1,1,2-Trichloroethane	ug/kg	81	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
1,2,3-Trichlorobenzene	ug/kg	-	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
1,2,3-Trichloropropane	ug/kg	0.127	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
1,2,4-Trichlorobenzene	ug/kg	19300	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
1,2,4-Trimethylbenzene	ug/kg	1070	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
1,3,5-Trimethylbenzene	ug/kg	5510	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Tetrachloroethylene	ug/kg	121	3310	151	25.6	39.8	ND (5.0)
Toluene	ug/kg	51200	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Trichloroethylene	ug/kg	84.2	20.4	6.4	ND (3.9)	ND (4.1)	ND (5.0)

Trichlorofluoromethane	ug/kg	21500	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Vinyl chloride	ug/kg	20.5	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)
Vinyl Acetate	ug/kg	2090	ND (21)	ND (20)	ND (19)	ND (21)	ND (25)
m,p-Xylene	ug/kg	809000	ND (8.3)	ND (7.9)	ND (7.8)	ND (8.3)	ND (10)
o-Xylene	ug/kg	809000	ND (4.2)	ND (4.0)	ND (3.9)	ND (4.1)	ND (5.0)

**General Chemistry**

Solids, Percent	%	-	80.8	95.5	96.2	97.6	-
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**Footnotes:**

[ " ] Depth at which soil sample was collected.

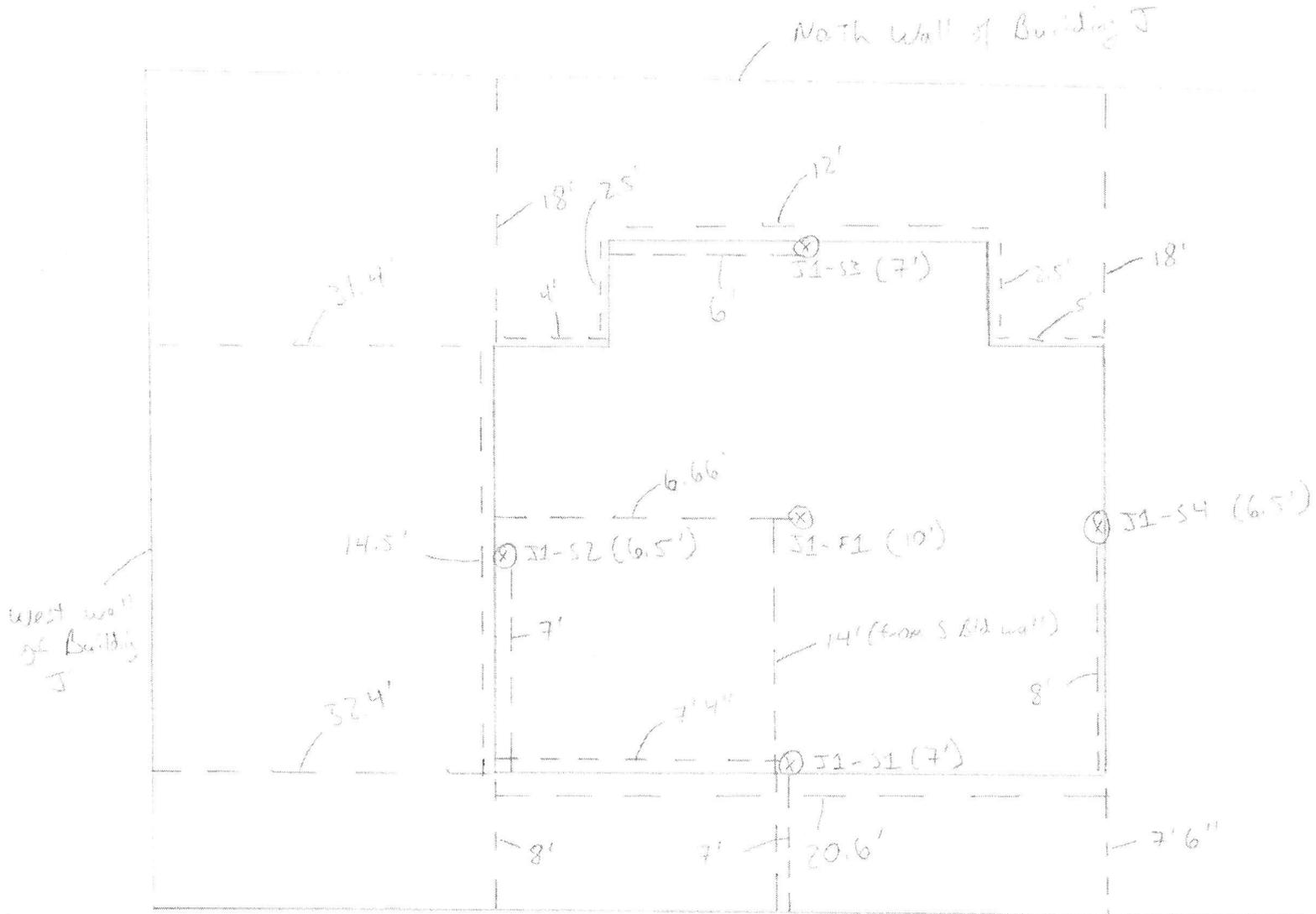
<sup>a</sup> Associated BS recovery outside control limits.

Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used for advisory purposes only. Accutest assumes no responsibility for errors in regulatory documents or changes to criteria detailed in later versions of the referenced regulation. It is the responsibility of the user to verify these limits before using or reporting any data.

**2 results exceeded regulatory criteria.**

# Bld J - Bullseye Excavation 6-12-14

N ↑



--- = Line to Show Dimensions  
 ——— = Excavation Boundary/Building Wall

Not to scale

Top 4' of sand removed and used as backfill. Soil removed from 4' to 10' for access purposes.

South wall of Building J

West wall of Building J

North wall of Building J

## Report of Analysis

Client Sample ID: J1-F1-10'	Date Sampled: 06/12/14
Lab Sample ID: FA15775-1	Date Received: 06/13/14
Matrix: SO - Soil	Percent Solids: 81.7
Method: SW846 8260B	
Project: Clean Harbors; Wichita, KS	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0086004.D	1	06/14/14	EP	n/a	n/a	VH3271
Run #2							

Run #	Initial Weight
Run #1	4.70 g
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	65	ug/kg	
107-02-8	Acrolein	ND	33	ug/kg	
107-13-1	Acrylonitrile	ND	33	ug/kg	
71-43-2	Benzene	ND	6.5	ug/kg	
108-86-1	Bromobenzene	ND	6.5	ug/kg	
74-97-5	Bromochloromethane	ND	6.5	ug/kg	
75-27-4	Bromodichloromethane	ND	6.5	ug/kg	
75-25-2	Bromoform	ND	6.5	ug/kg	
104-51-8	n-Butylbenzene	ND	6.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.5	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.5	ug/kg	
108-90-7	Chlorobenzene	ND	6.5	ug/kg	
75-00-3	Chloroethane	ND	6.5	ug/kg	
67-66-3	Chloroform	ND	6.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.5	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.5	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	33	ug/kg	
75-15-0	Carbon disulfide	ND	6.5	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.5	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.5	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.5	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.5	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.5	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.5	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.5	ug/kg	
124-48-1	Dibromochloromethane	ND	6.5	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	45.5	6.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.5	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	J1-F1-10'	Date Sampled:	06/12/14
Lab Sample ID:	FA15775-1	Date Received:	06/13/14
Matrix:	SO - Soil	Percent Solids:	81.7
Method:	SW846 8260B		
Project:	Clean Harbors; Wichita, KS		

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
541-73-1	m-Dichlorobenzene	ND	6.5	ug/kg	
95-50-1	o-Dichlorobenzene	ND	6.5	ug/kg	
106-46-7	p-Dichlorobenzene	ND	6.5	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.5	ug/kg	
100-41-4	Ethylbenzene	ND	6.5	ug/kg	
591-78-6	2-Hexanone	ND	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.5	ug/kg	
98-82-8	Isopropylbenzene	ND	6.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.5	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	33	ug/kg	
74-83-9	Methyl bromide	ND	6.5	ug/kg	
74-87-3	Methyl chloride	ND	6.5	ug/kg	
74-95-3	Methylene bromide	ND	6.5	ug/kg	
75-09-2	Methylene chloride	ND	13	ug/kg	
78-93-3	Methyl ethyl ketone	ND	33	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.5	ug/kg	
91-20-3	Naphthalene	ND	6.5	ug/kg	
103-65-1	n-Propylbenzene	ND	6.5	ug/kg	
100-42-5	Styrene	ND	6.5	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.5	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.5	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.5	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.5	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.5	ug/kg	
127-18-4	Tetrachloroethylene	139	6.5	ug/kg	
108-88-3	Toluene	ND	6.5	ug/kg	
79-01-6	Trichloroethylene	ND	6.5	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.5	ug/kg	
75-01-4	Vinyl chloride	ND	6.5	ug/kg	
108-05-4	Vinyl Acetate	ND	33	ug/kg	
	m,p-Xylene	ND	13	ug/kg	
95-47-6	o-Xylene	ND	6.5	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> J1-F1-10'	
<b>Lab Sample ID:</b> FA15775-1	<b>Date Sampled:</b> 06/12/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 06/13/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 81.7
<b>Project:</b> Clean Harbors; Wichita, KS	

## VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		75-124%
2037-26-5	Toluene-D8	85%		75-126%
460-00-4	4-Bromofluorobenzene	93%		71-133%
17060-07-0	1,2-Dichloroethane-D4	114%		72-135%

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ND = Not detected  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	J1-F1-10'	Date Sampled:	06/12/14
Lab Sample ID:	FA15775-1	Date Received:	06/13/14
Matrix:	SO - Soil	Percent Solids:	81.7
Method:	SW846 8270D SW846 3550C		
Project:	Clean Harbors; Wichita, KS		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X035315.D	1	06/16/14	MV	06/13/14	OP51980	SX1653
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

## ABN Full List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic Acid	ND	1000	ug/kg	
95-57-8	2-Chlorophenol	ND	200	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	410	ug/kg	
95-48-7	2-Methylphenol	ND	200	ug/kg	
	3&4-Methylphenol	ND	200	ug/kg	
88-75-5	2-Nitrophenol	ND	200	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	ug/kg	
108-95-2	Phenol	ND	200	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	ug/kg	
83-32-9	Acenaphthene	ND	200	ug/kg	
208-96-8	Acenaphthylene	ND	200	ug/kg	
62-53-3	Aniline	ND	200	ug/kg	
120-12-7	Anthracene	ND	200	ug/kg	
92-87-5	Benzidine	ND	2000	ug/kg	
56-55-3	Benzo(a)anthracene	ND	200	ug/kg	
50-32-8	Benzo(a)pyrene	ND	200	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	200	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	200	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	200	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	200	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	200	ug/kg	
100-51-6	Benzyl Alcohol	ND	200	ug/kg	
91-58-7	2-Chloronaphthalene	ND	200	ug/kg	
106-47-8	4-Chloroaniline	ND	200	ug/kg	
86-74-8	Carbazole	ND	200	ug/kg	
218-01-9	Chrysene	ND	200	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	J1-F1-10'	Date Sampled:	06/12/14
Lab Sample ID:	FA15775-1	Date Received:	06/13/14
Matrix:	SO - Soil	Percent Solids:	81.7
Method:	SW846 8270D SW846 3550C		
Project:	Clean Harbors; Wichita, KS		

## ABN Full List

CAS No.	Compound	Result	RL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	200	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	200	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	200	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	200	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	200	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	200	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	200	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	200	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	200	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	200	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	200	ug/kg	
132-64-9	Dibenzofuran	ND	200	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	410	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	200	ug/kg	
84-66-2	Diethyl phthalate	ND	410	ug/kg	
131-11-3	Dimethyl phthalate	ND	200	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	410	ug/kg	
206-44-0	Fluoranthene	ND	200	ug/kg	
86-73-7	Fluorene	ND	200	ug/kg	
118-74-1	Hexachlorobenzene	ND	200	ug/kg	
87-68-3	Hexachlorobutadiene	ND	200	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	200	ug/kg	
67-72-1	Hexachloroethane	ND	200	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	200	ug/kg	
78-59-1	Isophorone	ND	200	ug/kg	
90-12-0	1-Methylnaphthalene	ND	200	ug/kg	
91-57-6	2-Methylnaphthalene	ND	200	ug/kg	
88-74-4	2-Nitroaniline	ND	200	ug/kg	
99-09-2	3-Nitroaniline	ND	200	ug/kg	
100-01-6	4-Nitroaniline	ND	200	ug/kg	
91-20-3	Naphthalene	ND	200	ug/kg	
98-95-3	Nitrobenzene	ND	200	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	200	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	200	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	ug/kg	
85-01-8	Phenanthrene	ND	200	ug/kg	
129-00-0	Pyrene	ND	200	ug/kg	
110-86-1	Pyridine	ND	410	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	200	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	J1-F1-10'	Date Sampled:	06/12/14
Lab Sample ID:	FA15775-1	Date Received:	06/13/14
Matrix:	SO - Soil	Percent Solids:	81.7
Method:	SW846 8270D SW846 3550C		
Project:	Clean Harbors; Wichita, KS		

## ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%		40-102%
4165-62-2	Phenol-d5	75%		41-100%
118-79-6	2,4,6-Tribromophenol	88%		42-108%
4165-60-0	Nitrobenzene-d5	72%		40-105%
321-60-8	2-Fluorobiphenyl	77%		43-107%
1718-51-0	Terphenyl-d14	99%		45-119%

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ND = Not detected  
RL = Reporting Limit  
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J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> J1-F1-10'		<b>Date Sampled:</b> 06/12/14
<b>Lab Sample ID:</b> FA15775-1		<b>Date Received:</b> 06/13/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 81.7
<b>Project:</b> Clean Harbors; Wichita, KS		

**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Mercury	< 0.046	0.046	mg/kg	1	06/16/14	06/16/14 JL	SW846 7471B <sup>1</sup>	SW846 7471B <sup>2</sup>

(1) Instrument QC Batch: MA11668

(2) Prep QC Batch: MP27416

## Report of Analysis

Client Sample ID: J1-S1-7'	Date Sampled: 06/12/14
Lab Sample ID: FA15775-2	Date Received: 06/13/14
Matrix: SO - Soil	Percent Solids: 80.3
Method: SW846 8260B	
Project: Clean Harbors; Wichita, KS	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0086005.D	1	06/14/14	EP	n/a	n/a	VH3271
Run #2	H0086012.D	1	06/14/14	EP	n/a	n/a	VH3271

Run #	Initial Weight	Methanol Aliquot
Run #1	7.60 g	
Run #2	8.11 g	100 ul

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	41	ug/kg	
107-02-8	Acrolein	ND	20	ug/kg	
107-13-1	Acrylonitrile	ND	20	ug/kg	
71-43-2	Benzene	ND	4.1	ug/kg	
108-86-1	Bromobenzene	ND	4.1	ug/kg	
74-97-5	Bromochloromethane	ND	4.1	ug/kg	
75-27-4	Bromodichloromethane	ND	4.1	ug/kg	
75-25-2	Bromoform	ND	4.1	ug/kg	
104-51-8	n-Butylbenzene	ND	4.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.1	ug/kg	
108-90-7	Chlorobenzene	ND	4.1	ug/kg	
75-00-3	Chloroethane	ND	4.1	ug/kg	
67-66-3	Chloroform	ND	4.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.1	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	20	ug/kg	
75-15-0	Carbon disulfide	ND	4.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.1	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.1	ug/kg	
124-48-1	Dibromochloromethane	ND	4.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.1	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	J1-S1-7'	Date Sampled:	06/12/14
Lab Sample ID:	FA15775-2	Date Received:	06/13/14
Matrix:	SO - Soil	Percent Solids:	80.3
Method:	SW846 8260B		
Project:	Clean Harbors; Wichita, KS		

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
541-73-1	m-Dichlorobenzene	ND	4.1	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.1	ug/kg	
100-41-4	Ethylbenzene	ND	4.1	ug/kg	
591-78-6	2-Hexanone	ND	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.1	ug/kg	
98-82-8	Isopropylbenzene	ND	4.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.1	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	ug/kg	
74-83-9	Methyl bromide	ND	4.1	ug/kg	
74-87-3	Methyl chloride	ND	4.1	ug/kg	
74-95-3	Methylene bromide	ND	4.1	ug/kg	
75-09-2	Methylene chloride	ND	8.2	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.1	ug/kg	
91-20-3	Naphthalene	ND	4.1	ug/kg	
103-65-1	n-Propylbenzene	ND	4.1	ug/kg	
100-42-5	Styrene	ND	4.1	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.1	ug/kg	
127-18-4	Tetrachloroethylene	705 <sup>a</sup>	250	ug/kg	
108-88-3	Toluene	ND	4.1	ug/kg	
79-01-6	Trichloroethylene	ND	4.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.1	ug/kg	
75-01-4	Vinyl chloride	ND	4.1	ug/kg	
108-05-4	Vinyl Acetate	ND	20	ug/kg	
	m,p-Xylene	ND	8.2	ug/kg	
95-47-6	o-Xylene	ND	4.1	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	J1-S1-7'	Date Sampled:	06/12/14
Lab Sample ID:	FA15775-2	Date Received:	06/13/14
Matrix:	SO - Soil	Percent Solids:	80.3
Method:	SW846 8260B		
Project:	Clean Harbors; Wichita, KS		

## VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	90%	75-124%
2037-26-5	Toluene-D8	84%	87%	75-126%
460-00-4	4-Bromofluorobenzene	91%	93%	71-133%
17060-07-0	1,2-Dichloroethane-D4	108%	96%	72-135%

(a) Result is from Run# 2

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID: J1-S2-6.5'	Date Sampled: 06/12/14
Lab Sample ID: FA15775-3	Date Received: 06/13/14
Matrix: SO - Soil	Percent Solids: 79.2
Method: SW846 8260B	
Project: Clean Harbors; Wichita, KS	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0086006.D	1	06/14/14	EP	n/a	n/a	VH3271
Run #2	Y14589.D	1	06/14/14	EP	n/a	n/a	VY651

Run #	Initial Weight	Methanol Aliquot
Run #1	9.15 g	
Run #2	7.30 g	100 ul

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	34	ug/kg	
107-02-8	Acrolein	ND	17	ug/kg	
107-13-1	Acrylonitrile	ND	17	ug/kg	
71-43-2	Benzene	ND	3.4	ug/kg	
108-86-1	Bromobenzene	ND	3.4	ug/kg	
74-97-5	Bromochloromethane	ND	3.4	ug/kg	
75-27-4	Bromodichloromethane	ND	3.4	ug/kg	
75-25-2	Bromoform	ND	3.4	ug/kg	
104-51-8	n-Butylbenzene	ND	3.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	3.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	3.4	ug/kg	
108-90-7	Chlorobenzene	ND	3.4	ug/kg	
75-00-3	Chloroethane	ND	3.4	ug/kg	
67-66-3	Chloroform	ND	3.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	3.4	ug/kg	
106-43-4	p-Chlorotoluene	ND	3.4	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	17	ug/kg	
75-15-0	Carbon disulfide	ND	3.4	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	3.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	3.4	ug/kg	
594-20-7	2,2-Dichloropropane	ND	3.4	ug/kg	
124-48-1	Dibromochloromethane	ND	3.4	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.4	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	J1-S2-6.5'	Date Sampled:	06/12/14
Lab Sample ID:	FA15775-3	Date Received:	06/13/14
Matrix:	SO - Soil	Percent Solids:	79.2
Method:	SW846 8260B		
Project:	Clean Harbors; Wichita, KS		

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
541-73-1	m-Dichlorobenzene	ND	3.4	ug/kg	
95-50-1	o-Dichlorobenzene	ND	3.4	ug/kg	
106-46-7	p-Dichlorobenzene	ND	3.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.4	ug/kg	
100-41-4	Ethylbenzene	ND	3.4	ug/kg	
591-78-6	2-Hexanone	ND	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	3.4	ug/kg	
98-82-8	Isopropylbenzene	ND	3.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	3.4	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	17	ug/kg	
74-83-9	Methyl bromide	ND	3.4	ug/kg	
74-87-3	Methyl chloride	ND	3.4	ug/kg	
74-95-3	Methylene bromide	ND	3.4	ug/kg	
75-09-2	Methylene chloride	ND	6.9	ug/kg	
78-93-3	Methyl ethyl ketone	ND	17	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.4	ug/kg	
91-20-3	Naphthalene	ND	3.4	ug/kg	
103-65-1	n-Propylbenzene	ND	3.4	ug/kg	
100-42-5	Styrene	ND	3.4	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.4	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	3.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	3.4	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	3.4	ug/kg	
127-18-4	Tetrachloroethylene	2020 <sup>a</sup>	280	ug/kg	
108-88-3	Toluene	ND	3.4	ug/kg	
79-01-6	Trichloroethylene	ND	3.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.4	ug/kg	
75-01-4	Vinyl chloride	ND	3.4	ug/kg	
108-05-4	Vinyl Acetate	ND	17	ug/kg	
	m,p-Xylene	ND	6.9	ug/kg	
95-47-6	o-Xylene	ND	3.4	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> J1-S2-6.5'	
<b>Lab Sample ID:</b> FA15775-3	<b>Date Sampled:</b> 06/12/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 06/13/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 79.2
<b>Project:</b> Clean Harbors; Wichita, KS	

## VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	87%	75-124%
2037-26-5	Toluene-D8	85%	88%	75-126%
460-00-4	4-Bromofluorobenzene	95%	90%	71-133%
17060-07-0	1,2-Dichloroethane-D4	111%	101%	72-135%

(a) Result is from Run# 2

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ND = Not detected  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	J1-S3-7'	Date Sampled:	06/12/14
Lab Sample ID:	FA15775-4	Date Received:	06/13/14
Matrix:	SO - Soil	Percent Solids:	80.4
Method:	SW846 8260B		
Project:	Clean Harbors; Wichita, KS		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064879.D	1	06/14/14	AH	n/a	n/a	VF2146
Run #2	C098713.D	1	06/14/14	AD	n/a	n/a	VC3961

Run #	Initial Weight	Methanol Aliquot
Run #1	7.83 g	
Run #2	7.81 g	100 ul

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	40	ug/kg	
107-02-8	Acrolein	ND	20	ug/kg	
107-13-1	Acrylonitrile	ND	20	ug/kg	
71-43-2	Benzene	ND	4.0	ug/kg	
108-86-1	Bromobenzene	ND	4.0	ug/kg	
74-97-5	Bromochloromethane	ND	4.0	ug/kg	
75-27-4	Bromodichloromethane	ND	4.0	ug/kg	
75-25-2	Bromoform	ND	4.0	ug/kg	
104-51-8	n-Butylbenzene	ND	4.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.0	ug/kg	
108-90-7	Chlorobenzene	ND	4.0	ug/kg	
75-00-3	Chloroethane	ND	4.0	ug/kg	
67-66-3	Chloroform	ND	4.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	20	ug/kg	
75-15-0	Carbon disulfide	ND	4.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.0	ug/kg	
124-48-1	Dibromochloromethane	ND	4.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	14.6	4.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	J1-S3-7'	Date Sampled:	06/12/14
Lab Sample ID:	FA15775-4	Date Received:	06/13/14
Matrix:	SO - Soil	Percent Solids:	80.4
Method:	SW846 8260B		
Project:	Clean Harbors; Wichita, KS		

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
541-73-1	m-Dichlorobenzene	ND	4.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	ug/kg	
100-41-4	Ethylbenzene	ND	4.0	ug/kg	
591-78-6	2-Hexanone	ND	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.0	ug/kg	
98-82-8	Isopropylbenzene	ND	4.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	ug/kg	
74-83-9	Methyl bromide	ND	4.0	ug/kg	
74-87-3	Methyl chloride	ND	4.0	ug/kg	
74-95-3	Methylene bromide	ND	4.0	ug/kg	
75-09-2	Methylene chloride	ND	7.9	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.0	ug/kg	
91-20-3	Naphthalene	ND	4.0	ug/kg	
103-65-1	n-Propylbenzene	ND	4.0	ug/kg	
100-42-5	Styrene	ND	4.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.0	ug/kg	
127-18-4	Tetrachloroethylene	1220 <sup>a</sup>	260	ug/kg	
108-88-3	Toluene	ND	4.0	ug/kg	
79-01-6	Trichloroethylene	10.5	4.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.0	ug/kg	
75-01-4	Vinyl chloride	ND	4.0	ug/kg	
108-05-4	Vinyl Acetate	ND	20	ug/kg	
	m,p-Xylene	ND	7.9	ug/kg	
95-47-6	o-Xylene	ND	4.0	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID: J1-S3-7'	Date Sampled: 06/12/14
Lab Sample ID: FA15775-4	Date Received: 06/13/14
Matrix: SO - Soil	Percent Solids: 80.4
Method: SW846 8260B	
Project: Clean Harbors; Wichita, KS	

## VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	106%	75-124%
2037-26-5	Toluene-D8	94%	96%	75-126%
460-00-4	4-Bromofluorobenzene	102%	98%	71-133%
17060-07-0	1,2-Dichloroethane-D4	109%	107%	72-135%

(a) Result is from Run# 2

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	J1-S4-6.5'	Date Sampled:	06/12/14
Lab Sample ID:	FA15775-5	Date Received:	06/13/14
Matrix:	SO - Soil	Percent Solids:	78.5
Method:	SW846 8260B		
Project:	Clean Harbors; Wichita, KS		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064880.D	1	06/14/14	AH	n/a	n/a	VF2146
Run #2	C098714.D	1	06/14/14	AD	n/a	n/a	VC3961

Run #	Initial Weight	Methanol Aliquot
Run #1	8.05 g	
Run #2	7.92 g	100 ul

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	40	ug/kg	
107-02-8	Acrolein	ND	20	ug/kg	
107-13-1	Acrylonitrile	ND	20	ug/kg	
71-43-2	Benzene	ND	4.0	ug/kg	
108-86-1	Bromobenzene	ND	4.0	ug/kg	
74-97-5	Bromochloromethane	ND	4.0	ug/kg	
75-27-4	Bromodichloromethane	ND	4.0	ug/kg	
75-25-2	Bromoform	ND	4.0	ug/kg	
104-51-8	n-Butylbenzene	ND	4.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.0	ug/kg	
108-90-7	Chlorobenzene	ND	4.0	ug/kg	
75-00-3	Chloroethane	ND	4.0	ug/kg	
67-66-3	Chloroform	ND	4.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	20	ug/kg	
75-15-0	Carbon disulfide	ND	4.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.0	ug/kg	
124-48-1	Dibromochloromethane	ND	4.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	J1-S4-6.5'	Date Sampled:	06/12/14
Lab Sample ID:	FA15775-5	Date Received:	06/13/14
Matrix:	SO - Soil	Percent Solids:	78.5
Method:	SW846 8260B		
Project:	Clean Harbors; Wichita, KS		

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
541-73-1	m-Dichlorobenzene	ND	4.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	ug/kg	
100-41-4	Ethylbenzene	ND	4.0	ug/kg	
591-78-6	2-Hexanone	ND	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.0	ug/kg	
98-82-8	Isopropylbenzene	ND	4.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	ug/kg	
74-83-9	Methyl bromide	ND	4.0	ug/kg	
74-87-3	Methyl chloride	ND	4.0	ug/kg	
74-95-3	Methylene bromide	ND	4.0	ug/kg	
75-09-2	Methylene chloride	ND	7.9	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.0	ug/kg	
91-20-3	Naphthalene	ND	4.0	ug/kg	
103-65-1	n-Propylbenzene	ND	4.0	ug/kg	
100-42-5	Styrene	ND	4.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.0	ug/kg	
127-18-4	Tetrachloroethylene	2150 <sup>a</sup>	270	ug/kg	
108-88-3	Toluene	ND	4.0	ug/kg	
79-01-6	Trichloroethylene	26.5	4.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.0	ug/kg	
75-01-4	Vinyl chloride	ND	4.0	ug/kg	
108-05-4	Vinyl Acetate	ND	20	ug/kg	
	m,p-Xylene	ND	7.9	ug/kg	
95-47-6	o-Xylene	ND	4.0	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

<b>Client Sample ID:</b> J1-S4-6.5'	
<b>Lab Sample ID:</b> FA15775-5	<b>Date Sampled:</b> 06/12/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 06/13/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 78.5
<b>Project:</b> Clean Harbors; Wichita, KS	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	109%	75-124%
2037-26-5	Toluene-D8	94%	100%	75-126%
460-00-4	4-Bromofluorobenzene	102%	102%	71-133%
17060-07-0	1,2-Dichloroethane-D4	110%	109%	72-135%

(a) Result is from Run# 2

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	06/12/14
Lab Sample ID:	FA15775-6	Date Received:	06/13/14
Matrix:	SO - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Clean Harbors; Wichita, KS		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064881.D	1	06/14/14	AH	n/a	n/a	VF2146
Run #2							

Run #	Initial Weight
Run #1	5.00 g
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/kg	
107-02-8	Acrolein	ND	25	ug/kg	
107-13-1	Acrylonitrile	ND	25	ug/kg	
71-43-2	Benzene	ND	5.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	06/12/14
Lab Sample ID:	FA15775-6	Date Received:	06/13/14
Matrix:	SO - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Clean Harbors; Wichita, KS		

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
541-73-1	m-Dichlorobenzene	ND	5.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
591-78-6	2-Hexanone	ND	25	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	ug/kg	
74-83-9	Methyl bromide	ND	5.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	ug/kg	
100-42-5	Styrene	ND	5.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	ug/kg	
	m,p-Xylene	ND	10	ug/kg	
95-47-6	o-Xylene	ND	5.0	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	06/12/14
Lab Sample ID:	FA15775-6	Date Received:	06/13/14
Matrix:	SO - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Clean Harbors; Wichita, KS		

## VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		75-124%
2037-26-5	Toluene-D8	99%		75-126%
460-00-4	4-Bromofluorobenzene	106%		71-133%
17060-07-0	1,2-Dichloroethane-D4	110%		72-135%

ND = Not detected  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

# DRAFT

## FACT SHEET

### INTERIM REMEDIAL ACTIONS

CLEAN HARBORS KANSAS LLC

2549 NEW YORK AVENUE, WICHITA KANSAS

EPA Identification Number KSD007246846

This notification is being provided to nearby landowners, residents/occupants as well as other interested parties. It describes site background, past work to investigate site contamination, next steps and how you can obtain more information.

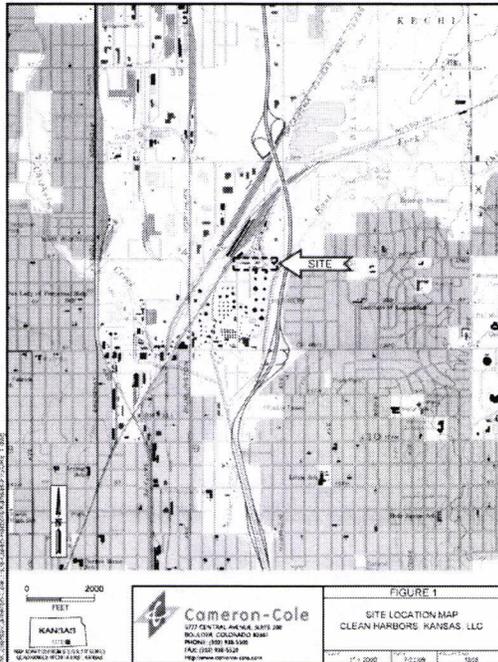
### BACKGROUND

The Site is located at 2549 New York Avenue in Wichita Kansas and is currently operated by Clean Harbors Environmental Services as a hazardous waste treatment, storage and disposal facility (TSDF) under Resource Conservation and Recovery Act (RCRA) permit issued by the United States Environmental Protection Agency (EPA) and the Kansas Department of Health and Environment (KDHE). The Site has been used historically for a number of industrial purposes beginning in the 1940s. Hazardous waste operations at the Site are regulated under RCRA permit, most recently issued by KDHE on September 29, 2012.

The Site is located within the Northern Industrial Corridor (NIC). The NIC consists of at least one former CERCLA (i.e., Superfund) site (29th and Mead) that was combined with two other identified sites (the Northeast Investigation Area and the 13th and Washington Site), delisted, and turned over to the City of Wichita to be managed with KDHE and USEPA oversight. The NIC site lies in north-central Wichita and is comprised of over 4,000 acres of commercial, industrial, residential, agricultural, and recreational property.

Site investigations conducted at the Site between 1999 and 2013 have identified the presence of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals in Site soil and groundwater. Shallow groundwater at the Site discharges to the East Fork of Chisolm Creek and is not currently used for domestic water supply. A health risk assessment for the Site was completed in 1997 that concluded that no unacceptable health risks to Site workers or recreational visitors to the East Fork of Chisolm Creek were present as a result of historic releases of hazardous constituents at the Site.

Recent Site investigation activity between September 2013 and February 2014 was performed to fully delineate the extent of Site soil contamination requiring remedial action and to collect additional information needed to identify appropriate remedies.



**NEXT STEPS**

Clean Harbors plans to implement a interim remedial action at the facility that will include excavation and off-site disposal of approximately 35,000 cubic yards of impacted soil. This interim action will also include demolition of numerous structures on the facility that overlie contaminated soil. Excavated soil will be transported off-site for treatment and/or disposal at licensed hazardous waste treatment and disposal facilities. These interim remedial actions will be overseen by EPA and KDHE. The interim remedial actions are expected to be completed by December 2015. During this time, increased truck traffic and demoltion activity will occur in the immediate Site vicinity.

**FOR MORE INFORMATION**

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